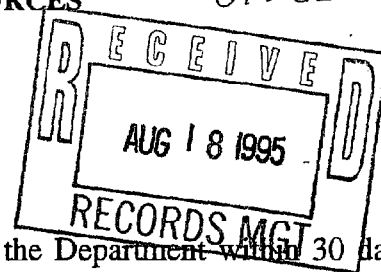


ARIZONA DEPARTMENT OF WATER RESOURCES

049-6L

Operations Division
500 North 3rd Street
Phoenix, Arizona 85004



WELL DRILLER REPORT

This report should be prepared by the driller in all detail and filed with the Department within 30 days following completion of the well.

1. Owner Name: MAGMA COPPER COMPANY
Address: 14605 W. HUNT HIGHWAY FLORENCE, AZ 85232
Street City State Zip
2. Driller Name: BEEMAN DRILLING COMPANY
Address: P.O. Box 3370 APACHE JUNCTION AZ 85217
Street City State Zip
3. Location: 4 N/S 9 E/W 33 $\frac{1}{4}$ NE $\frac{1}{4}$ NW $\frac{1}{4}$ NW
Township Range Section 10-acre 40-acre 160-acre
4. Well Registration No. 55- 549180 (Required)
5. Permit No. _____ (If issued)

DESCRIPTION OF WELL

6. Total depth of hole 740 ft.
7. Type of casing Sch. 40 LGS, Sch. 80 PVC
8. Diameter and length of casing 5 9/16 in. from 0 to 660.5, 5 9/16 in from 720.6 to 730.4
9. Method of sealing at reduction points _____
10. Perforated from _____ to _____, from _____ to _____ from _____ to _____
11. Size of cuts _____ Number of cuts per foot _____
12. If screen was installed: Length 60 ft. Diam 5 9/16 in. Type Sch. 80 PVC, 0.080" slot
13. Method of construction DRILLED
(drilled, dug, driven, bored, jetted, etc)
14. Date started JUNE 13 1995
Month Day Year
15. Date completed JUNE 15 1995
Month Day Year
16. Depth to water 152 ft. (If flowing well, so state)
17. Describe point from which depth measurements were made, and give sea-level elevation if available
G.L.
18. If flowing well, state method of flow regulation: _____
19. Remarks: _____

DO NOT WRITE IN THIS SPACE

55-549180
Ref D(4-9)33BBA
Fil
Ret

ENTERED AUG 23 1995

Ent

LOG OF WELL

Indicate depth at which water was first encountered, and the depth and thickness of water bearing beds. If water is artesian, indicate depth at which encountered, and depth to which it rose in well.

[illegible]

I hereby certify that this well was drilled by me (or under my supervision), and that each and all statements herein contained are true to the best of my knowledge and belief.

Driller Name: ARIZONA BEEMAN DRILLING LLC
P.O. Box 3370
Street
Apache Jct AZ 85217 (602) 983-2542
City State Zip Phone No.
August 17, 1995
Date

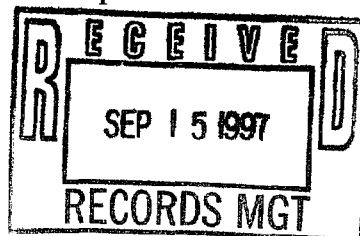
ARIZONA DEPARTMENT OF WATER RESOURCES

500 North Third Street

Phoenix, Arizona 85004

WELL DRILLER REPORT

This report should be prepared by the driller in all detail and filed with the Department within 30 days following completion of the well.



1. STEWART BROTHERS DRILLING COMPANY
PO BOX 2067
MILAN NM 87021-2067

2. Owner Name: BHP Copper Co. 7400 N. Drake Rd., Ste. 200
Address: Tucson AZ 85704
City State Zip

3. Location: 45 N/S 9E E/W 33 1/4 NE 1/4 NW 1/4 NW
Township Range Section 10-acre 40-acre 160-acre

4. Well Registration No. 55- 549180 (Required)

5. Permit No. _____ (If issued)

DESCRIPTION OF WELL - 0496L

6. Total depth of hole 740 ft.
7. Type of casing PVC
8. Diameter and length of casing 1 1/2 in. from 721 to 450, 4 1/2 in from 500 to +2
9. Method of sealing at reduction points _____
10. Perforated from 721 to 640, from _____ to _____ from _____ to _____
11. Size of cuts .020 Number of cuts per foot _____
12. If screen was installed: Length 80 ft. Diam 1 1/2 in. Type PVC
13. Method of construction Drilled
(drilled, dug, driven, bored, jetted, etc)
14. Date started 8 5 97
Month Day Year
15. Date completed 8 6 97
Month Day Year
16. Depth to water 180 ft. (If flowing well, so state)
17. Describe point from which depth measurements were made, and give sea-level elevation if available
+3' ABOVE LAND SURFACE
18. If flowing well, state method of flow regulation: _____

19. Remarks: THIS WAS REPAIR WORK
done on this well. Well was previously
drilled in 1995. Steel casing was leaking
@226' so well was reduced in diameter
and recompleted to repair leak.

DO NOT WRITE IN THIS SPACE
OFFICE RECORD

Registration No. 55-549180

File No. D(4-9)33BBA

Received _____ By _____

Entered ENTERED SEP 15 1997

LOG OF WELL

Indicate depth at which water was first encountered, and the depth and thickness of water bearing beds. If water is artesian, indicate depth at which encountered, and depth to which it rose in well.

[illegible]

I hereby certify that this well was drilled by me (or under my supervision), and that each and all statements herein contained are true to the best of my knowledge and belief.

Driller Name: _____

Street

City

State

Zip

Phone No. _____

Signature of Driller

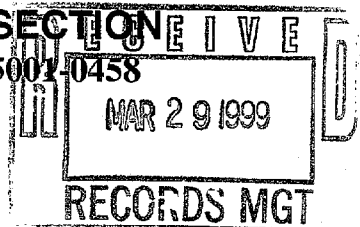
Date _____

049-GL

ARIZONA DEPARTMENT OF WATER RESOURCES GROUNDWATER MANAGEMENT SUPPORT SECTION

MAIL TO: P. O. BOX 458 - PHOENIX ARIZONA 85001-0458

Phone (602) 417-2470



COMPLETION REPORT

(Pump Installation Report)

1. Per A.R.S. § 45-6000, the Completion Report is to be filed with the Department within 30 days after installation of pump equipment by the registered well owner.
2. Drawdown of the water level for a non-flowing well should be measured in feet after not less than 4 hours of continuous operations. For a flowing well the shut-in pressure should be measured in feet above the land surface or in pounds per square inch at the land surface.
3. The static groundwater level should be measured in feet from the land surface immediately prior to the capacity test.
4. The tested pumping capacity of the well in gallons per minute for a non-flowing well should be determined by measuring the discharge of the pump after continuous operation for at least 4 hours and for a flowing well be measuring the natural flow at the land surface.

REGISTRATION NO: 55- 549180

FILE NO: D(4-9)33BBA

LOCATION OF THE WELL:

Township 4 N(S) Range 9 (E/W) Section 33 $\frac{1}{4}$ NE $\frac{1}{4}$ NW $\frac{1}{4}$ NW
10-acre 40-acre 160-acre

EQUIPMENT INSTALLED:

Kind of pump Stainless Steel Submersible Kind of power Electric
Turbine, Submersible, Centrifugal, etc. Electric, natural gas, gasoline, etc.
H.P. Rating of Motor 1/2 Pumping Capacity 13 gpm Date Pump Installed 8-9-97

WELL TEST:

Test pumping capacity 13 gpm Date Well Tested 8-9-97
Gallons per minute
Method of Discharge Measurement 5 gallon Bucket & Stopwatch
Weir, orifice, current meter, etc.
Static Groundwater Level 135.23 ft. Drawdown 25 ft.
Total Pumping Lift _____ ft. Drawdown _____ lbs
(Flowing Well)

I HEREBY CERTIFY that the above statements are true to the best of my knowledge and belief.

Print Well Owner's Name BHP Copper Address _____ City _____ State _____ Zip _____
Florence Project
Signature of Well Owner 14605 East Hunt Highway Phone Number _____
Florence, AZ 85232 Date 3/26/99

Ph: (520) 868-4744 Fax: (520) 868-0463

DWR 55-56 (Rev 6/98)

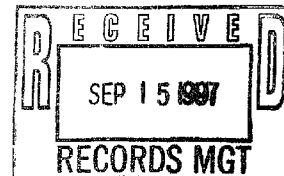
Carroll Hoag

Mailed 03/26/99

ANSWERED MAR 30 1999

04462

ARIZONA DEPARTMENT OF WATER RESOURCES
GROUNDWATER MANAGEMENT SUPPORT SECTION
500 North Third Street
Phoenix, Arizona 85004-3903



THIS AUTHORIZATION SHALL BE IN POSSESSION OF THE DRILLER DURING ALL DRILL OPERATIONS

WELL REGISTRATION NO: 55-549180

AUTHORIZED DRILLER: STEWART BROTHERS DRILLING COMPANY

LICENSE NO: 314

NOTICE OF INTENTION TO MODIFY A MONITOR WELL(S) HAS BEEN FILED WITH THE DEPARTMENT BY:

CONSULTANT: BROWN & CALDWELL

WELL OWNER: BHP COPPER CO. 7400 N ORACLE RD STE. 200 TUCSON AZ 85704

The well(s) is/are to be located in the:

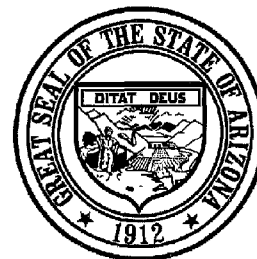
NE 1/4 of the NW 1/4 of the NW 1/4 Section 33 Township 4 SOUTH Range 9 EAST

No. of Wells in this project: 1

THIS AUTHORIZATION EXPIRES AT MIDNIGHT ON THE 21ST DAY OF JULY, 1998


CHIEF, GROUNDWATER MANAGEMENT SUPPORT

THE DRILLER MUST FILE A LOG OF THE WELL
WITHIN 30 DAYS OF COMPLETION OF DRILLING



MAIL TO: P.O. BOX 458, PHOENIX, ARIZONA 85001-0458
500 NORTH 3RD STREET, PHOENIX, ARIZONA 85004-3903
PHONE (602) 417-2470 FAX (602) 417-2422

049-626

RECEIVED
JUL 22 1997
GROUNDWATER MGMT

GROUNDWATER MGT

GROUNDWATER MGT

GROUNDWATER MGT

10. Will this proposed well be associated

with a permit: Yes X No
If yes, Permit No. APP 101704

11. Construction will start:

7 28 97
Month Day Year

- 12. Period well will remain in use:**

- 45 Months/Years

13. For monitoring wells, is pump equipment to be installed?

- Yes ☒ No

(a) If yes, design pump capacity:

14. Drilling Firm: *Drilling Company*

- Stewart Brothers
Name P.O. Box 2067
Mailing Address Milan NM 87021-
City (505) 287-2986 State 2067 Zip
Telephone No. 314
DWR License Number

ROC License Category

7-22-97
Date

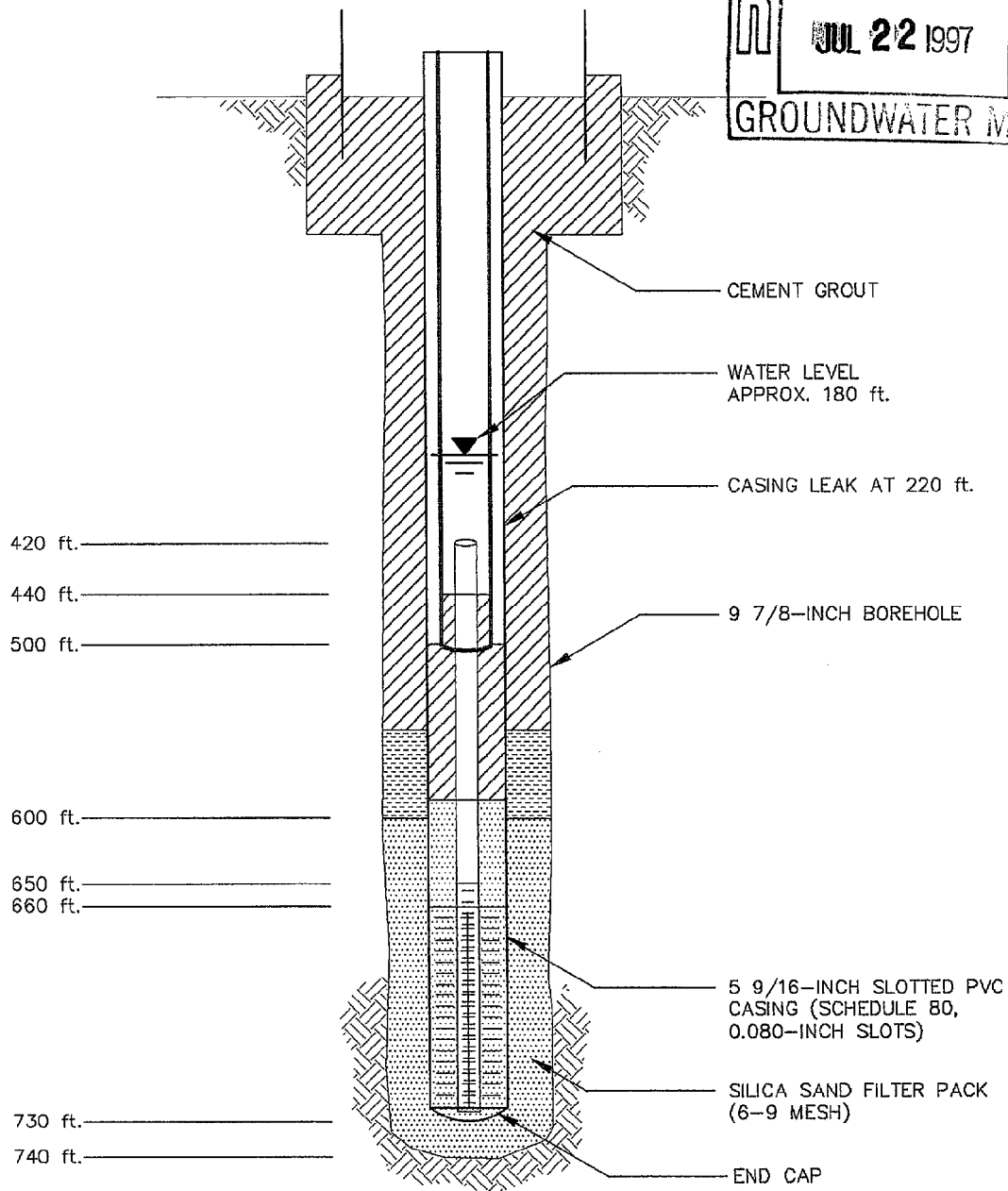
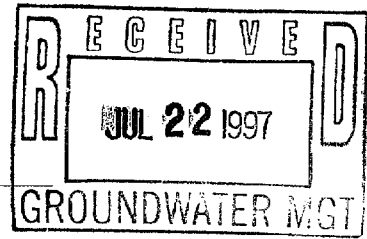
17. If construction plans have been coordinated with Arizona Department of Environmental Quality, who is the agency contact? _____
 If construction plans have been coordinated with Arizona Department of Water Resources, who is the agency contact? _____
18. **WELL CONSTRUCTION PLAN:**
 a) Drilling method (mud rotary, hollow-stem auger, etc.) The existing well will be modified as shown in Attachment
 b) Borehole diameters: _____ inches from _____ feet to _____ feet.
 _____ inches from _____ feet to _____ feet.
 c) Casing materials (PVC, steel, hollow-stem auger, etc.)
 material _____ diameter _____ inches from _____ feet to _____ feet.
 material _____ diameter _____ inches from _____ feet to _____ feet.
 d) Method of sealing at reductions _____
 e) Annular seal materials (cement, grout, etc.); method of placement (tremied, circulated):
 material _____ method _____ from _____ feet to _____ feet.
 material _____ method _____ from _____ feet to _____ feet.
 f) Filter packs (state material):
 material _____ from _____ feet to _____ feet.
 material _____ from _____ feet to _____ feet.
 g) Perforations or screen specifications:
 Type _____ from _____ feet to _____ feet.
 Type _____ from _____ feet to _____ feet.
 h) Method of well development (bail, air lift, surge) _____
 i) Will surface or conductor casing extend above grade?: Yes _____ No _____
19. Include detailed construction diagram showing expected water depth in feet below land surface, and details of vault, if specified.

GENERAL INSTRUCTIONS

- Please submit two original notices, with original signatures, and a check or money order (no cash) in the amount of \$10.00, to P.O. Box 458, Phoenix, Arizona 85001-0458 or hand deliver to 500 North 3rd Street, Phoenix, Arizona 85004-3903.

CONDITIONS

- If an individual other than the land owner or lessee, signs this notice, an original letter of authorization from the land owner/lessee, stating that the individual has permission to sign this specific Notice on their behalf, shall accompany the Notice of Intention to Drill a Monitor/Piezometer Well form.
- Construction and abandonment standards for all wells shall be in accordance with A.A.C. R12-15-811 and R12-15-816.
- Drilling of the well shall be completed within one year after the date of Notice.
- A Well Driller Report is required within thirty days of completion of drilling. A Completion Report, is required to be filed with the Department within thirty days after installation of pump equipment for monitor wells.
- Pump equipment may not be installed on a well drilled for piezometer purposes. If a monitor well is pumped, pumping is limited to the maximum amount required for monitor purposes, but in no case may exceed 35 gallons per minute and an annual volume of 10 acre feet total.
- A.A.C. Rule R12-15-811.H.2, requires that: "A monitor well shall be identified as such on the vault cover or at the top of the steel casing. Identification information will include well registration number."
- Special construction standards required pursuant to A.A.C. Rule R12-15-821: _____



NOT TO SCALE

NOTES:

1. CASING DIMENSIONS ARE OUTSIDE DIAMETER
2. PVC = POLYVINYL CHLORIDE



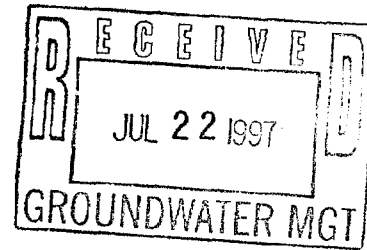
PRELIMINARY

BROWN AND CALDWELL

MONITOR WELL REVISION DESIGN

BROWN AND
CALDWELL

July 22, 1997



Mr. Lawrence A. (Al) Ramsey
Arizona Department of Water Resources
500 North 3rd Street
Phoenix, Arizona 85005

15-3355/45

Subject: Notice of Intent (NOI) to Drill and
Request for Emergency Authorization to Drill

Dear Mr. Ramsey:

Attached is a NOI to Drill with a request to modify Well No. 55-549180 located in Florence, Arizona. We are also submitting a NOI to replace the well in the event that repairs are not successful. We request emergency authorization to proceed for the reasons described below.

The Department of Environmental Quality issued BHP Copper an Aquifer Protection Permit (Permit No. 101704) to operate an in-situ copper mining operation northwest of Florence.

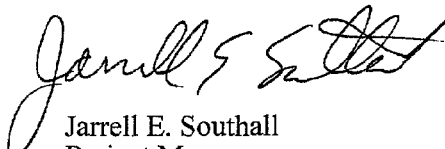
One of the requirements of the permit is that BHP Copper establish a 12-month baseline for each of its 31 point-of-compliance (POC) wells before commencing injection. The 12-month baseline has been established for all wells except the aforementioned well and it had 11 months of good data before it suffered a structural failure.


Because BHP is scheduled to commence an injection test program in September, it is important that the well be repaired or replaced immediately. Due to the urgency of the situation, we are enclosing a NOI for modification and a NOI for replacement. The replacement alternative, of course, will be employed only if repairs are not successful. Because the existing well is a POC well, the replacement must be in the same immediate vicinity of the existing well and must be screened over the same interval as the existing well.

Driller information is provided on the attached NOIs. If you have any questions or comments, please contact either of us at (602) 222-4444.

Very truly yours,

BROWN AND CALDWELL


Jarrell E. Southall
Project Manager


Marvin F. Glotfelty
Manager of Groundwater Resources

JES:kw
Enclosures

cc: Mr. Greg Wallace, Arizona Department of Water Resources
Ms. Kathy Willman, Arizona Department of Water Resources

Environmental Engineering And Consulting • Analytical Services

3636 N. CENTRAL AVENUE, SUITE 300, PHOENIX, AZ 85012-1931
(602) 222-4444 FAX (602) 222-4466

s:\bhp\3355\ramsey.doc\07/22/97\kw

ARIZONA DEPARTMENT OF WATER RESOURCES

500 North Third Street, Phoenix, Arizona 85004
Telephone (602) 417-2470
Fax (602) 417-2422

July 22, 1997



FIFE SYMINGTON
Governor

RITA P. PEARSON
Director

BHP COPPER CO.
7400 N ORACLE RD STE. 200
TUCSON AZ 85704

RE: Registration No. 55-549180
File No. D(4-9)33BBA

Dear Well Owner:

Enclosed for your records is an annotated copy of the Notice of Intention to modify a well. This is returned to you as evidence of compliance with A.R.S. §45-596. A drilling card has been mailed to your designated driller. Prior to drilling he must have it in his possession.

Since this well is being drilled as a Monitor well, or for Cathodic Protection, Grounding, Geotechnical or Piezometer purposes, our standard driller report form is also being furnished to the driller. He is required to complete it and return it to the Department within 30 days after the completion of the well. A Completion Report form is being furnished for monitor wells where pump installation is authorized. This must be completed within thirty days of installation as required by A.R.S. §45-600.

A Change of Well Information form is enclosed for your future use. If you deem it necessary to change the location of the proposed well, please notify the Department on the enclosed form. A properly amended Drilling Card will then be issued and must be in possession of the driller before drilling begins. During the drilling of a new well, if it is determined that it must be abandoned, then a Well Abandonment Completion Report must be submitted per R12-15-816.F.

Per A.R.S. §45-593, the person to whom a well is registered shall notify this Department of a change of ownership of the well and/or information pertaining to the physical characteristics of the well, in order to keep the well registration file current and accurate.

Sincerely,

Dorothy Boggs
Water Resource Technician
Groundwater Management Support Section

Arizona Department of Water Resources

500 North Third Street
PHOENIX AZ 85004

Invoice Number : 33579**1:21 PM, 7/22/97****Customer Name : BROWN & CALDWELL**

Fee Type	Description	Quantity	Price	ExtendedPrice
4439-06	Notice of Intent to Drill a Well	1	\$10.00	\$10.00

SubTotal: \$10.00

Tax :

Total: \$10.00

Cash Tendered : \$20.00

Check Tendered : \$0.00

Total Amount Tendered : \$20.00

Change : \$10.00

Method of Payment : CASH

Check Number :

THIS IS YOUR RECEIPT ---- "Thank You" Az Department of Water Resources

Register : DRAWER1

Cashier : WRPAB

MONITOR/PIEZOMETER WELL

FILING FEE \$10.00

ARIZONA DEPARTMENT OF WATER RESOURCES

OPERATIONS DIVISION

500 NORTH THIRD STREET

PHOENIX, ARIZONA 85004 (602) 417-2470

NOTICE OF INTENTION TO DRILL MONITOR/PIEZOMETER WELL

MONITOR/PIEZOMETER WELL

DEPARTMENT OF WATER RESOURCES
FILING FEE \$10.00

MAR 31 1995

OPERATIONS DIV.

0826-6

Section § 45-596, Arizona Revised Statutes provide: Prior to drilling a monitor or piezometer well, a Notice of Intention to Drill shall be filed with the Department.

1. WELL LOCATION:

4 N 90 W 33
Township Range Section

NE 1/4 NW 1/4 NW 1/4
10 ACRE 40 ACRE 160 ACRE

2. Position location of the well on the land:

Latitude 33 0 3 ' 15 "

Longitude 111 0 26 ' 15 "

3. County: PINAL

4. Owner of the land of wellsite:

MAGMA COPPER COMPANY

Name

14605 WEST HUNT HIGHWAY

Address

FLORENCE AZ 85232
City State Zip

5. Lessee of the land of wellsite:

Name

Address

City State Zip

6. Owner of well:

MAGMA COPPER COMPANY

Name

14605 WEST HUNT HIGHWAY

Address

FLORENCE AZ 85232
City State Zip

7. Consulting Firm: BROWN AND CALDWELL

Contact Person: STEVE MELLON

Phone: (602) 222-4445

8. Purpose of well drilled pursuant to this notice

Monitor X

Piezometer

9. If for deepening or modifying, Well Registration Number

55-

10. Construction will start:

APRIL 1995
Month Day Year

11. Period well will remain in

use 1 Months Years

12. For monitoring wells, is pump equipment to be installed?

Yes No X

(a) If yes, design pump capacity

(b) What use will be made of the water

13. Drilling firm:

BOYLES BROTHERS DRILLING

Name

6527 W. NORTHVIEW AVE.

Address

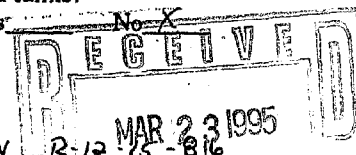
GLENDALE AZ 85301
City State Zip

DWR License No. 28

CLASS A-04 076-386-002
ROC License classification

14. Is the proposed wellsite within 100 feet of a septic tank system, sewage disposal area, landfill, hazardous waste facility, storage area of hazardous material or petroleum storage areas and tanks?

Yes No X



16. Proposed method of abandonment of well after project is completed: ACCORDING TO REGULATION

17. Is this well to monitor existing contamination? No Potential contamination No Please explain:

GENERAL INSTRUCTIONS

- Fill out this form in **DUPLICATE** and send **WITH \$10.00 FEE** to 500 NORTH THIRD STREET, PHOENIX, AZ 85004
- For specific instructions, limitations and conditions, see the reverse side of this form.
- Must be signed by **land owner or lessee**.
- Section §45-596(D), provides that the Director shall determine that all information required on form has been submitted. If not, the person filing will be notified and the drilling, deepening, or modification of the well may not proceed.

I state that Notice is filed in compliance with Section § 45-596 and is complete and correct to the best of my knowledge and belief and that I understand the conditions set forth on the reverse side of this form.

JOHN T. KLINE
Typed or Printed Name

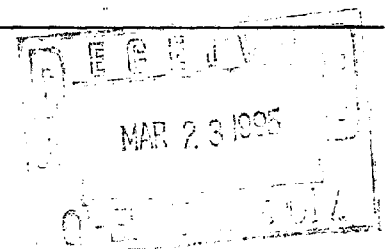
Signature [X] Land Owner: [] Lessee of wellsite

3/17/95
Date

18. If construction plans have been coordinated with Arizona Department of Environmental Quality, who is the agency contact? _____
If construction plans have been coordinated with Arizona Department of Water Resources, who is the agency contact? _____
19. WELL CONSTRUCTION PLAN
- Drilling method (mud rotary, hollow-stem auger, etc.) MUD ROTARY
 - Borehole diameters: 13 3/4 inches from 0 feet to 20 feet.
8 3/4 inches from 20 feet to 1090 feet.
 - Casing materials (PVC, steel, hollow-stem auger, etc.)
material STEEL diameter 9 5/8 inches from 0 feet to 20 feet
material PVC SCHD 80 diameter 4 inches from 20 feet to 905 feet
 - Method of sealing at reductions _____
 - Annular seal materials (cement, grout, etc.); method of placement (tremied, circulated)
material CEMENT GROUT method TREMIE from 0 feet to 20 feet
material BENTONITE GROUT method TREMIE from 20 feet to 895 feet
 - Filter packs (state material):
material COLORADO SILICA SAND #6-9 MESH from 895 feet to 1090 feet
material _____ from _____ feet to _____ feet
 - Perforations or screen specifications:
type .080 INCH SLOT PVC SCHD 80 from 905 feet to 1080 feet
type _____ from _____ feet to _____ feet
 - Method of well development (bail, air lift, surge) AIR LIFT AND JETTING
 - Will surface or conductor casing extend above grade: " Yes _____ No X _____
20. Include detailed construction diagram showing expected water depth in feet below land surface, and details of vault, if specified.

CONDITIONS

- I. Construction and abandonment standards for all wells shall be in accordance with A.A.C. R12-15-811 and R12-15-816.
- II. Drilling of the well shall be completed within one (1) year after the date of Notice.
- III. A Well Driller Report, is required within 30 days of completion of drilling. A Completion Report, is required to be filed with the Department within 30 days after installation of pump equipment for monitor wells.
- IV. Pump equipment may not be installed on a well drilled for piezometer purposes. If a monitor well is pumped, pumping is limited to the maximum amount required for monitor purposes, but in no case may exceed 35 gallons per minute and an annual volume of 10 acre feet total.
- V. A.A.C. Rule R12-15-811.H.2, requires that: "A monitor well shall be identified as such on the vault cover or at the top of the steel casing. Identification information will include well registration number."
- VI. Special construction standards required pursuant to A.A.C. Rule R12-15-821: _____



**ARIZONA DEPARTMENT OF WATER RESOURCES
GROUNDWATER MANAGEMENT SUPPORT SECTION**

500 North Third Street, Phoenix, Arizona 85004-3903
Phone (602) 417-2470 Fax (602) 417-2422

**REQUEST FORM TO CHANGE WELL INFORMATION
OWNERSHIP * DRILLER * VARIANCE**

Please complete the appropriate section of this request form and return to the above address with applicable fee.
NOTE: A.R.S. § 45-593.C requires that the Department be notified of change of well ownership and that the new owner is required to keep the Department's Well Registration records current and accurate. Well data and ownership changes must be submitted within thirty days after changes take place.

SAVE THIS FORM TO REPORT FUTURE CHANGES IN OWNERSHIP, CHANGES IN ADDRESS, OR CHANGE IN WELL DATA SUCH AS PUMP CAPACITY, CORRECTION OF LEGAL DESCRIPTION, CHANGE OF WELL DRILLER AND AMENDING INFORMATION PREVIOUSLY FILED.

1. CHANGE OF WELL INFORMATION: (NO FEE REQUIRED)

NOTE: If the location of the proposed well changes after drilling authority has been issued, attach a \$10.00 reissue fee for each well.

WELL REGISTRATION NO. 55- 549180 FILE NO: D(4-9)33 BBA

If known, I/We request the following well information be changed: _____

NAME CHANGE ONLY

Date _____ Signature of Current Well Owner _____

2. STATEMENT OF CHANGE OF WELL OWNERSHIP: (\$10.00 FEE REQUIRED)

NOTE: If this change consists of more than one well and the names are common: attach a \$10.00 fee. Otherwise, each well requires a separate fee of \$10.00.

I, _____, state that I am the Previous/New Owner of the well described below:

$\frac{1}{4}$ $\frac{1}{4}$ $\frac{1}{4}$ of Section _____ Township _____ Range _____
10 Acre 40 Acre 160 Acre

Well Registration No. 55- See attached File No.: _____ (if known)

Magma Copper Company
PRINT Previous Owner's Name

BHP Copper Inc.
PRINT New Owner's Name

7400 North Oracle Road, Suite 200
Mailing Address

7400 North Oracle Road, Suite 200
Mailing Address

Tucson Arizona 85704
City State Zip

Tucson Arizona 85704
City State Zip

520-575-5600
Telephone Number

520-575-5600
Telephone Number

Signature of Previous/New Well Owner By: [Signature]
Title: Land Manager

Date x 4-23-98

MAG

**ARIZONA DEPARTMENT OF WATER RESOURCES
GROUNDWATER MANAGEMENT SUPPORT SECTION**
500 North Third Street, Phoenix, Arizona 85004-3903
Phone (602) 417-2470 Fax (602) 417-2422

3. REQUEST TO CHANGE WELL DRILLER \$10.00 FEE REQUIRED FOR EACH WELL

This request must be received by this Department and the Drill Card issued to the new drilling firm prior to the drilling or completion of any well.

Well Registration No. 55- _____ File No: _____

Original Well Driller

New Well Driller

Mailing Address

Mailing Address

Telephone Number

Telephone Number

ADWR License Number

ADWR License Number

R.O.C. License Category

R.O.C. License Category

Typed or Printed Name of Well Owner

Signature of Well Owner

Date

The fee charge for well ownership and reissue of drill card is authorized by R12-15-151, effective June 30, 1994.

4. REISSUE OF DRILLING AUTHORITY FOR VARIANCE REQUEST: (\$10.00 EACH WELL)

NOTE: If extraordinary or unusual conditions exist, after the initial drilling authority has been issued, the well owner or well driller may request a variance from the provisions of R12-15-811.

WELL REGISTRATION NO. 55- _____ FILE NO: _____

I/WE REQUEST THE FOLLOWING WELL DRILLING AUTHORITY BE REISSUED PER THE ATTACHED VARIANCE REQUEST:

Signature of Well Owner/Well Driller _____ Date _____

NAME: MAGMA COPPER CO

GRID: E 10

REPORT NO: WL9020

ARIZONA DEPARTMENT OF WATER RESOURCES WELL REPORT
OPERATIONS DIVISION

PAGE 5,089

REPORT DATE: 1/31/96

**** WELLS SEQUENCED BY ALPHABETICAL ORDER ****

FULL-NAME	Q U A D	T O W N	R N G E	S E C T	Q T R	REG NO	WELL DEPTH	DEPTH CASED	CD AI SA EM	WATER LEVEL	PUMP (GPM)	WELL DRILL DATE	DRL LIC NO.	WTR USE	WS AH TE RD	L O R G T	C O R T	O W N
MAGMA COPPER CO 14605 W HUNT HWY FLORENCE	D	4.0	9.0	33	A B B	55-549174	0917	0910	05	0124		5/07/1995	360	M	15	X	N	
AZ 85232																		
MAGMA COPPER CO 14605 W HUNT HWY FLORENCE	D	4.0	9.0	33	A B B	55-549175							360	M	15	I	N	
AZ 85232																		
MAGMA COPPER CO 14605 W HWY HWY FLORENCE	D	4.0	9.0	33	A B B	55-549176	0915	0846	06	0138		5/10/1995	360	M	U8	X	N	
AZ 85232																		
MAGMA COPPER CO 14605 W HUNT HWY FLORENCE	D	4.0	9.0	33	A B B	55-549177							360	M	15	I	N	
AZ 85232																		
MAGMA COPPER CO 14605 W HUNT HWY FLORENCE	D	4.0	9.0	33	B B A	55-549179							360	M	15	I	N	
AZ 85232																		
MAGMA COPPER CO 14605 W HUNT HWY FLORENCE	D	4.0	9.0	33	B B A	55-549180	0740	0730	05	0152		6/15/1995	360	M	U8	X	N	
AZ 85232																		
MAGMA COPPER CO 14605 W HUNT HWY FLORENCE	D	4.0	9.0	33	B B A	55-549181	1280	1242	06	0147		6/24/1995	360	D	U8	X	N	
AZ 85232																		
MAGMA COPPER CO 14605 W HUNT HWY FLORENCE	D	4.0	9.0	33	B B A	55-549182							360	M	15	I	N	
AZ 85232																		
MAGMA COPPER CO PO BOX 100 MIAMI	A	1.0	14.0	30	A C B	55-545978							109	M	07	I	N	
AZ 85539																		
MAGMA COPPER CO PO BOX 100 MIAMI	A	1.0	14.0	19	D C D	55-545979							109	M	07	I	N	
AZ 85539																		
MAGMA COPPER CO 200 W DESERT SKY RD TUCSON	D	8.0	18.0	10	D A A	55-514862		2519				7/29/1986	075	N	11	X	N	
AZ 85704																		

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ARIZONA DEPARTMENT OF WATER RESOURCES

Operations Division, 500 North Third Street
Phoenix, Arizona 85004 Telephone (602) 417-2470

3. REQUEST TO CHANGE WELL DRILLER \$10.00 FEE REQUIRED FOR EACH WELL

This request must be received by this Department and the Drill Card issued to the new drilling firm PRIOR to the drilling or completion of any well.

Well Registration No. 55- 549180 File No. D(4-9)3366a

BOYLES BROTHERS DRILLING
Original Well Driller

ARIZONA BEEMAN DRILLING LLC.
New Well Driller

6527 W. NORTHVIEW AVE.
Mailing Address GLENDALF, AZ 85301

P.O. Box 3370 APACHE JUNCTION, AZ. 85217
Mailing Address

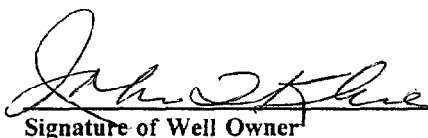
28
ADWR License Number

360
ADWR License Number

CLASS A-04 - 076 - 386 - 002
R.O.C. License Number

CLASS A-04 - 102429
R.O.C. License Number

JOHN T. KLINE
Typed or Printed Name of Well Owner


Signature of Well Owner

5/31/95
Date

The fee charge for well ownership and reissue of drill card is authorized by R12-15-151, effective June 30, 1994.

DWR-55-71-8/94(Rev)

ENTERED JUN 20 1995

JUN 6 1995

049-GL

ARIZONA DEPARTMENT OF WATER RESOURCES

Operations Division, 500 North Third Street
Phoenix, Arizona 85004 Telephone (602) 417-2470

REQUEST FORM TO CHANGE WELL INFORMATION OWNERSHIP * DRILLER

Please complete the appropriate section of this request form and return to the above address with applicable fee. **NOTE:** A.R.S.§45-593.C. requires that the Department be notified of change of well ownership and that the new owner is required to keep the Department's Well Registration records current and accurate. Well data and ownership changes must be submitted within thirty (30) days after changes take place.

SAVE THIS FORM TO REPORT FUTURE CHANGES IN OWNERSHIP, CHANGES IN ADDRESS, OR CHANGE IN WELL DATA SUCH AS PUMP CAPACITY, CORRECTION OF LEGAL DESCRIPTION, CHANGE OF WELL DRILLER AND AMENDING INFORMATION PREVIOUSLY FILED.

1. CHANGE OF WELL INFORMATION

NO FEE REQUIRED

NOTE: If the location of the proposed well changes after drilling authority has been issued, attach a \$10.00 reissue fee for each well.

Well Registration No. 55-_____ File No. _____ (If known)

I/We request the following well information be changed: _____

Date _____ Signature of Current Well Owner _____

2. STATEMENT OF CHANGE OF WELL OWNERSHIP

\$10.00 FEE REQUIRED

If this change consists of more than one well and the names are common: attach a \$10.00 fee. Otherwise, each well requires a separate \$10.00.

I, _____, state that I am the **Previous/New Owner** of the well described below:

_____ 1/4 _____ 1/4 _____ 1/4; Section _____ Township _____ Range _____
10 acre 40 acre 160 acre

Well Registration No. 55-_____ File No. _____ (If known)

PRINT Previous Owner's Name _____

PRINT New Owner's Name _____

Mailing Address _____

Mailing Address _____

City _____ State _____ Zip _____

City _____ State _____ Zip _____

Telephone _____

Telephone _____

Date _____ Signature of Previous/New Well Owner _____

DWR-55-71-8/94(Rev)

ARIZONA DEPARTMENT OF WATER RESOURCES

OPERATIONS DIVISION

500 North Third Street
Phoenix, Arizona 85004-3903
Phone (602) 417-2470

REISSUE

DUPLICATE

THIS AUTHORIZATION SHALL BE IN POSSESSION OF THE DRILLER DURING ALL DRILL OPERATIONS

WELL REGISTRATION NO. 55-549178 THRU 55-549182

AUTHORIZED DRILLER: AZ BEEMAN DRILLING

LICENSE NO. 360

NOTICE OF INTENTION TO DRILL A MONITOR WELL HAS BEEN FILED WITH THE DEPARTMENT BY:

Owner of Well(s)

MAGMA COPPER COMPANY

14605 WEST HUNT HIGHWAY

FLORENCE

AZ 85232

The well(s) is/are to be located in:

NE 1/4 NW 1/4 NW 1/4 Section 33 Township 4.0 SOUTH Range 9.0 EAST
10 acre 40 acre 160 acre

NUMBER OF WELLS IN PROJECT: 5

THIS AUTHORIZATION EXPIRES AT MIDNIGHT ON MAR 30TH, 1996

THE DRILLER SHALL FILE A LOG OF THE WELL WITHIN 30 DAYS OF
COMPLETION OF DRILLING.



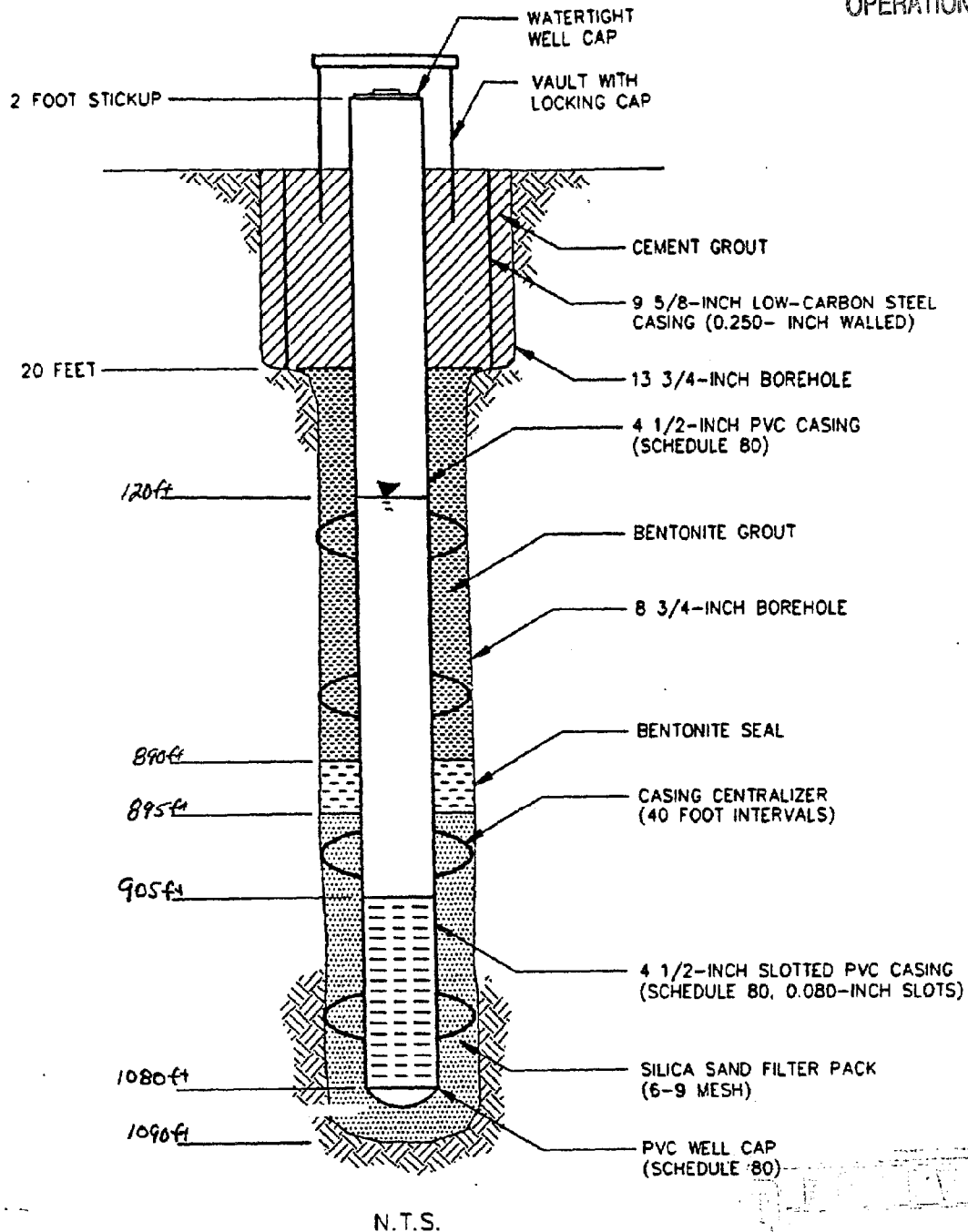

CHIEF, OPERATIONS DIVISION

OB26-6
OB 26-7

DEPARTMENT OF WR

MAR 31 1995

OPERATIONS DIV.



NOTES:

1. PVC = POLYVINYL CHLORIDE
2. CASING DIMENSIONS ARE OUTSIDE DIAMETER

WELL DESIGN

BROWN AND CALDWELL

ARIZONA DEPARTMENT OF WATER RESOURCES

500 North Third Street, Phoenix, Arizona 85004
Telephone (602) 417-2470
Fax (602) 417-2401



FIFE SYMINGTON
Governor

RITA P. PEARSON
Director

April 12, 1995

Magma Copper Company
14605 West Hunt Highway
Florence, AZ 85232

RE: Registration No. 55-549179 thru 55-549182

File No. D(4-9)33BBA

Dear Well Owner:

Enclosed for your records is an annotated copy of the Notice of Intention to Drill a well. This is returned to you as evidence of compliance with A.R.S. §45-596. A drilling card has been mailed to your designated driller. Prior to drilling he must have it in his possession.

Since this well is being drilled as a Monitor well, or for Cathodic Protection, Grounding, Geotechnical or Piezometer purposes, our standard driller report form is also being furnished to the driller. He is required to complete it and return it to the Department within 30 days after the completion of the well. A Completion Report form is being furnished for monitor wells where pump installation is authorized. This must be completed within thirty days of installation as required by A.R.S. §45-600.

A Change of Well Information form is enclosed for your future use. If you deem it necessary to change the location of the proposed well, please notify the Department on the enclosed form. A properly amended Drilling Card will then be issued and must be in possession of the driller before drilling begins. During the drilling of a new well, if it is determined that it must be abandoned, then a Well Abandonment Completion Report must be submitted per R12-15-816.F.

Per A.R.S. §45-593, the person to whom a well is registered shall notify this Department of a change of ownership of the well and/or information pertaining to the physical characteristics of the well, in order to keep the well registration file current and accurate.

For additional information, you may contact the Operations Division at (602) 542-1581.

Sincerely,

Dorothy Boggs
Groundwater Permit Specialist

RECEIPT

18495

BROWN & CALDWELL
3636 N. CENTRAL AVE., STE. 300
PHOENIX, AZ 85012

MAGMA COPPER COMPANY

STATE OF ARIZONA
DEPARTMENT OF WATER RESOURCES
OPERATIONS DIVISION
15 SOUTH 15TH AVENUE
PHOENIX, ARIZONA 85007
(602) 542-1581

ENTRY CODE 55

FILE NO. 55-549128

THRU 55-549182

ITEM DESCRIPTION	RATE	AMOUNT
FILING FEE FOR NOI TO DRILL A WELL	10.00	550.00
REG. NO. 55-549128 THRU 55-549182		
FILE NO. VARIOUS		

PAYED

CHECK NO. 7548 FEE ACCOUNT NO. _____ TOTAL \$ 550.00

CHIT NO. _____ RECEIVED BY _____ DB DATE 04-12-95

**ARIZONA DEPARTMENT OF WATER RESOURCES
GROUNDWATER MANAGEMENT SUPPORT SECTION**

500 North Third Street
Phoenix, Arizona 85004-3903

THIS AUTHORIZATION SHALL BE IN POSSESSION OF THE DRILLER DURING ALL DRILL OPERATIONS

WELL REGISTRATION NO: 55-549180

AUTHORIZED DRILLER: STEWART BROTHERS DRILLING COMPANY

LICENSE NO: 314

NOTICE OF INTENTION TO MODIFY A MONITOR WELL(S) HAS BEEN FILED WITH THE DEPARTMENT BY:

CONSULTANT: BROWN & CALDWELL

WELL OWNER: BHP COPPER CO. 7400 N ORACLE RD STE. 200 TUCSON AZ 85704

The well(s) is/are to be located in the:

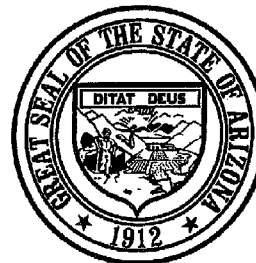
NE 1/4 of the NW 1/4 of the NW 1/4 Section 33 Township 4 SOUTH Range 9 EAST

No. of Wells in this project: 1

THIS AUTHORIZATION EXPIRES AT MIDNIGHT ON THE 21ST DAY OF JULY, 1998


CHIEF, GROUNDWATER MANAGEMENT SUPPORT

**THE DRILLER MUST FILE A LOG OF THE WELL
WITHIN 30 DAYS OF COMPLETION OF DRILLING**



**ARIZONA DEPARTMENT OF WATER RESOURCES
OPERATIONS DIVISION**

500 North Third Street
Phoenix, Arizona 85004-3903
Phone (602) 417-2470

DUPLICATE

THIS AUTHORIZATION SHALL BE IN POSSESSION OF THE DRILLER DURING ALL DRILL OPERATIONS

WELL REGISTRATION NO. 55-549179 THRU 55-549182

AUTHORIZED DRILLER: BOYLES BROTHERS DRILLING LICENSE NO. 28

NOTICE OF INTENTION TO DRILL A MONITOR WELL HAS BEEN FILED WITH THE DEPARTMENT BY:

Owner of Well(s)

MAGMA COPPER COMPANY

14605 WEST HUNT HIGHWAY

FLORENCE

AZ 85232

The well(s) is/are to be located in:

NE 1/4 NW 1/4 NW 1/4
10 acre 40 acre 160 acre

Section 33 Township 4.0 SOUTH

Range 9.0 EAST

NUMBER OF WELLS IN PROJECT: 4

THIS AUTHORIZATION EXPIRES AT MIDNIGHT ON MAR 30TH, 1996

THE DRILLER SHALL FILE A LOG OF THE WELL WITHIN 30 DAYS OF
COMPLETION OF DRILLING.



CHIEF, OPERATIONS DIVISION